

Title (en)

LIQUID-TIGHT SLIDE FASTENER AND MANUFACTURING METHOD THEREFOR

Title (de)

FLÜSSIGKEITSDICHTER REISSVERSCHLUSS UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

ATTACHE COULISSANTE ÉTANCHE AUX LIQUIDES ET PROCÉDÉ DE FABRICATION ASSOCIÉ

Publication

**EP 2508096 B1 20150902 (EN)**

Application

**EP 09851682 A 20091130**

Priority

JP 2009070134 W 20091130

Abstract (en)

[origin: EP2508096A1] There is provided a liquid-tight slide fastener capable of sufficiently ensuring waterproof property regardless of where fastener elements are formed and capable of sufficiently ensuring attachment strength of the fastener elements to fastener tapes provided with liquid-tight layers. There is also provided a manufacturing method for the liquid-tight slide fastener. The liquid-tight slide fastener including a pair of fastener tapes (20) including a pair of tape members (21), expanded core sections (22) respectively provided on opposing tape edges of the pair of tape members (21), and liquid-tight layers (23) formed on one side of the pair of tape members (21); a pair of fastener element rows (30) respectively provided on the pair of fastener tapes (20) and comprised of a plurality of fastener elements (31); and a slider (40) that causes the pair of fastener element rows (30) to engage/disengage. The liquid-tight layers (23) are formed with gaps to the core sections (22) in a width direction of the fastener tapes (20). The fastener elements (31) are attached to the core sections (22).

IPC 8 full level

**A44B 19/32** (2006.01); **A44B 19/52** (2006.01)

CPC (source: EP KR US)

**A44B 19/02** (2013.01 - US); **A44B 19/32** (2013.01 - EP KR US); **A44B 19/52** (2013.01 - KR); **Y10T 24/25** (2015.01 - EP US); **Y10T 24/2505** (2015.01 - EP US); **Y10T 24/2514** (2015.01 - EP US); **Y10T 24/2539** (2015.01 - EP US); **Y10T 24/2543** (2015.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

**EP 2508096 A1 20121010**; **EP 2508096 A4 20131016**; **EP 2508096 B1 20150902**; CN 102639022 A 20120815; CN 102639022 B 20150311; ES 2546735 T3 20150928; HK 1169572 A1 20130201; JP 5514836 B2 20140604; JP WO2011064893 A1 20130411; KR 101325441 B1 20131104; KR 20120070616 A 20120629; TW 201117743 A 20110601; TW I383758 B 20130201; US 2012246886 A1 20121004; US 9015908 B2 20150428; WO 2011064893 A1 20110603

DOCDB simple family (application)

**EP 09851682 A 20091130**; CN 200980162676 A 20091130; ES 09851682 T 20091130; HK 12110258 A 20121017; JP 2009070134 W 20091130; JP 2011543066 A 20091130; KR 20127013827 A 20091130; TW 99112227 A 20100419; US 200913512504 A 20091130